#337

IMP-F

HOURLY AVERAGED PLASMA

(67-051A-08C)

IMP-F

HOURLY AVERAGED PLASMA DATA

67-051A-08C

THIS DATA SET HAS BEEN RESTORED. THE ORIGINAL TAPE WAS 9-TRACK, 800 BPI WITH ONE FILE OF DATA. THE TAPE WAS CREATED ON AN IBM 360 COMPUTER. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBER AND THE TIME SPAN IS A FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR02873	DS02873	D23432	1	06/04/67 - 12/02/67

REQ. AGENT	RAND NO.	ACQ. AGENT
CAW		DJH

IMP-F

HOURLY AVERAGED PLASMA

67-051A-08C

This data set contains Hourly Averaged Plasma Data from IMP-F. The tape was created on the 360/75 computer and the tape is 9 track, 800, BINARY, ODD, 1 FILE. The tape format is listed on the following pages, and the 'D' & 'C' numbers are listed below with time spans and orbits.

D#	C#	Time Span	Orbits
D-23432	C-17584	06/03/67 - 12/02/67	3 - 45

HOURLY AVERAGED PLASMA

Data set (tape) 67-051A-08C IMP F Hourly Averaged Plasma (merged with magnetic field) data from Ogilvie's instrument.

Data are hourly averaged density, temperature, velocity, beta (defined as NKT/(B**2/8/PI)), energy density, pressure, VXB electric field and associated parameters locating the spacecraft in ecliptic coordinates and used for quality control of the averages.

Format as follows:

WORD	FORMAT	DATA
1	I	Day of year (Jan 1 = 1)
2	I	Hour of Day (1 to 24)
3	I	Orbit number
4	F	Mag (B)
5	F	Theta
6	F	PHI
7	F	GSE-BX
8	F	Standard deviation (SD) for BX
9	F	BY
10	F	SD-BY
11	F	BZ
12	F	SD-BZ
13	F	SD for mag (B)
14	I	Number of B vectors used in average
15	F	Number density for ions
16	F	SD for density
17	F	Average temperature
18	F	SD T
19	F	Bulk speed

WORD	FORMAT	DATA
20	F	SD V
21	F	Beta = NKT/(B**2/8/PI)
22	F	SD Beta
23	F	Energy density
24	F	SD ED
25	F	Pressure = RHO*V**2, RHO=number density * proton mass
26	F	SD Pressure
27	F	Electric field = (V X B)/C * Theta
28	F	SD (E Theta)
29	F	Electric field PHI comp.=(V X B)/C * PHI
30	F	SD (E PHI)
31	F	(E+)/F ?
32	F	SD word 31
33	I	Number of plasma data points in average
34	F	Satellite radial distance (ER)
35	F	GSE-satellite X position in ER
36	F	GSE-Y
37	F	GSE-Z
38	F	Geomagnetic latitude sun position
39	F	?
40		CONTROL WORD

Tape was written on an IBM 360 series computer, is 9 track 800 BPI, and contains all data for 1967. Physical record size apparently is 32004 bytes. LRECL=160 bytes.

```
IEF285I   SYS76103.T064505.SV000.YZJRJWA4.R0000147      SYSOUT
IEF285I   VOL SER NOS= K3SCR2.
IEF285I   SYS76103.T064505.RV000.YZJRJWA4.R0000148      DELETED
IEF285I   VOL SER NOS= K3SCR2.
IEF285I   SYS76103.T064505.RV000.YZJRJWA4.S0000149      SYSIN
IEF285I   VOL SER NOS= K3SCR4.
IEF285I   SYS76103.T064505.RV000.YZJRJWA4.S0000149      DELETED
IEF285I   VOL SER NOS= K3SCR4.
IEF373I STEP /LINK     / START 76103.1232
IEF374I STEP /LINK     / STOP  76103.1232 CPU    0MIN 01.34SEC MAIN 130K LCS    0K
- STEP 01 -      RETURN CODE = 0000                          STEP TIME =      .20 MINS=(CPU=      .02,IO=      .18)
                                   IO IN SECS. DISK=    10.32,DRUM=      .56,TAPE=      .00,CELL=      .00,OTHR=      .16
     XXGO        EXEC PGM=*.LINK.SYSLMOD,COND=(4,LT),REGION=70K                    00000230
     XXFT05F001 DD  DDNAME=DATA5                                                   00000240
     XXFT06F001 DD SYSOUT=&OUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=&BLKSIZE)          00000250
     IEF653I SUBSTITUTION JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265)
     XXFT07F001 DD SYSOUT=B,DCB=(RECFM=FB,BLKSIZE=7280,LRECL=80)                   00000260
     XXSYSPRINT DD SYSOUT=&OUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=&BLKSIZE),         00000270
     IEF653I SUBSTITUTION JCL - SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265),
     XX              SPACE=(CYL,(0,1)),UNIT=(DISK,3)                               00000280
     //GO.FT08F001 DD UNIT=STRACK,DISP=(OLD,KEEP),LABEL=(01,BLP,,IN),
     //        DCB=(BLKSIZE=32000,RECFM=U,DEN=2),
     //                VOL=SER=JJ0026
     //GO.DATA5 DD *
     //
IEF236I ALLOC. FOR YZJRJWA4 GO
IEF237I 232    ALLOCATED TO PGM=*.DD
IEF237I 231    ALLOCATED TO FT05F001
IEF237I 332    ALLOCATED TO FT06F001
IEF237I 332    ALLOCATED TO FT07F001
IEF237I 332    ALLOCATED TO SYSPRINT
IEF237I 231    ALLOCATED TO SYSPRINT
IEF237I 232    ALLOCATED TO SYSPRINT
IEF237I 0C4    ALLOCATED TO FT08F001
```

IMP-F HOURLY AVERAGED
PLASMA
06/03/67 - 02/02/67
ORBIT - 3-45

D-23432
C-17584

67-051A-08C

06/03/67 ORBIT - 3

RECORD 1 OF FILE 1
LENGTH = 32000 BYTES

154 19 3

7DC40000	00AC0000	0000009A	00000013	00000003	41480000	41D00000	43117000	40AD810A	405E6B9B
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431A3CBE	4148A9E2	40335A63	4015386B	425E50ED	41AF9E70	42AD5613	423E9614	4317C791	42A2BF69
C36FE02A	425A2C0C	4319DF56	4165BEAA	0000000F	42208000	C1366666	421FCCCC	C1533333	C21D0000
C0C0057F	00AC0000	0000009A	00000014	00000003	41499999	42170000	4311E000	41130453	404D10ED
C140BC77	4053F3CE	411CF4DB	40442504	4084C803	000000AF	41726A49	40E07BDD	445113BD	4410E4DB
431A2A4B	414E6238	403F36C8	3FD45C39	426700B9	419E72E0	42D1865A	421B6D64	432DF343	4267639E
C368F25F	4279E2E5	4319387 9	4186E0B2	00000010	4220B333	C1366666	42201999	C1500000	C21B0000
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431AAC1C	421EAC33	4039CB85	4013E0A9	426AF35C	41D16F59	42CC7545	423109A1	4340FA15	429C95DF
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